BUCO
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BUCO
Tools

Pulling and Extracting Tools
Track Alignment Gauges
Tyre Levers · Plug Spanners

for

Automotive Maintenance
Electrical Industries
Machine Tool Works

Mining
Railways
Shipbuilding

General Maintenance
Engineering Works
Air Industries

For Security... **...Drop Forged Quality**

Our slogan „For security drop forged quality" is for all BUCO Tools a fundamental principle, to keep up our quality conception of many year's standing.

Our comprehensive range of well-known quality tools, serve all kinds of maintenance and industrial activities, such as Automotive and Industrial Engineering, Mining, Railways, Electrical and Air Industries, General Engineering, Shipbuilding, etc.
All parts are chromatic-zink finished, with a gunmetal finish centre screw, to guarantee constant use for many years.
After company's inspection, faulty goods will be replaced free of charge.

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BUCO

10
HY 10

Standard Twin Grip Pullers

Pulling legs drop forged in one piece therefore guaranteed not-bending even by extremely hard work.

The double profile beam strenghtened by trapeze design provide ample power.

Range of use extended by bolt holders which are pushed on beam instead of legs.

For swift and safe removal of wheels of any description, gears, races, ball bearings, pulleys etc.

mechanical

Order No.	mm	inch	mm	inch	kg
10/1	80	3¼	100	4	0,9
10/1A	120	5	100	4	1,0
10/2	160	6½	150	6	2,7
10/2A	200	8	150	6	3,1
10/3	250	10	200	8	6,5
10/3A	350	14	200	8	7,7
10/4	530	21	200	8	11,0

hydraulic

Order Nr.	mm	inch	mm	inch	kg
HY10/2	160	6½	150	6	3,2
HY10/2A	200	8	150	6	3,6
HY10/3	250	10	200	8	8,1
HY10/3A	350	14	200	8	9,0
HY10/4	530	21	200	8	11,9

The well-known standard series with hydraulic ram gives additional power and avoids friction on the thread of centre screw. An easy removal of tight fitting parts is afforded.

For use turn back screw on top of hydraulic ram, centre screw ist then screwed tight against axle or shaft, to finish work tighten top screw.

Standard Pulling Legs, loose

Order No.	for pullers	mm	inch	kg
10/A	10/1, 10/1A, 13/1, 13/1A	100	4	0,2
10/B	10/2, 10/2A, 13/2, 13/2A	150	6	0,6
10/C	10/3, 10/3A, 10/4	200	8	1,3

Standard Triple Grip Pullers

BUCO
13
HY13

A strong triple grip Puller with parallel movable legs. Can be used for external and also for internal work by simply turning pulling legs.

Easy and swift handling, the same as our twin grip pullers but offering certain advantages for intricate pulling work.

Our triple grip puller cannot tip over even by extreme use.

Important notice:
Pulling legs, extensions and all other equipment of Standard twin grip pullers can be used in conjunction with our No. 13 triple grip pullers.

mechanical

Order No.	mm	inch	mm	inch	kg
13/1	80	3¼	100	4	1,1
13/1A	120	5	100	4	1,4
13/2	160	6½	150	6	3,7
13/2A	200	8	150	6	4,3

hydraulic

HY13/2	160	6½	150	6	4,3
HY13/2A	200	8	150	6	4,9

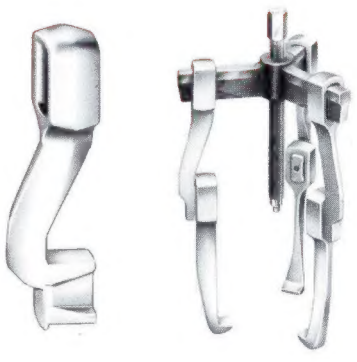
Standard Extensions

BUCO
10/-E

For all work where reach of standard legs is not sufficient, extensions are necessary. They are easily mounted, without the use of any tools.

Extensions are pushed on to beam and legs likewise on extensions.

Unlimited reach can be produced by putting more extensions together.



Order No.	for pullers	extends reach mm	inch	kg
10/AE	10/1 + 10/1A 13/1 + 13/1A	100	4	0,25
10/BE	10/2 + 10/2A 13/2 + 13/2A	150	6	0,70
10/CE	10/3, 10/3A, 10/4	150	6	1,25

BUCO

10/Z

Additional Equipment for Standard Pullers

Bolt holders in conjunction with drawing bolts and threaded adaptors are an indispensable outfit for all pulling-off or pressing-on work with threaded holes, where pulling legs with claws are useless.

Bolt Holders

Order-No.	for pullers	for drawing bolts	kg
10/1H	10/1 + 10/1A 13/1 + 13/1A	ZB/1	0,1
10/2H	10/2 + 10/2A 13/2 + 13/2A	ZB/2	0,3
10/3H	10/3 + 10/3A	ZB/3	0,6

Drawing Bolts

Order No.	for bolt holders	length mm	inch	thread	kg
ZB/1	10/1H	150	6	M 10	0,12
ZB/2	10/2H	250	10	M 14	0,50
ZB/3	10/3H	350	14	M 18 x 1,5	1,00

Drawing Bolt Extensions

Order No.	for drawing bolts	length mm	inch	thread	kg
ZBV/1	ZB/1	100	4	M 10	0,10
ZBV/2	ZB/2	150	6	M 14	0,25
ZBV/3	ZB/3	150	6	M 18 x 1,5	0,40

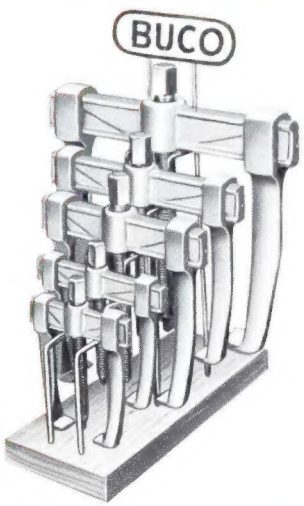
Threaded Adaptors

Order No. and size	for drawing bolts and extensions	kg
M 5/M 10		0,02
M 6/M 10	ZB/1	0,02
M 8/M 10	+	0,02
M 10/M 10	ZBV/1	0,03
M 12/M 10		0,03
M 10/M 14	ZB/2	0,04
M 12/M 14	+	0,05
M 14/M 14	ZBV/2	0,05

Order No. and size	for drawing bolts and extensions	kg
M 16/M 14	ZB/2 +	0,06
M 18/M 14	ZBV/2	0,07
M 16/M 18 x 1,5		0,10
M 18/M 18 x 1,5		0,11
M 20/M 18 x 1,5	ZB/3	0,12
M 22/M 18 x 1,5	+	0,14
M 24/M 18 x 1,5	ZBV/3	0,15
M 27/M 18 x 1,5		0,20

BUCO

10/St



Display Stand

An excellent help for sales. For shop windows, sales counter or for the workshop.

Order No.	display stand furnished with	kg
10/St 1	1 Puller each No. 10/1, 10/1A, 10/2, 10/2A, 10/3	15,5
10/St 2	1 Puller each No. 10/1, 10/1A, 10/2, 10/2A, 10/3 1 pair each of Extensions No. 10/AE, 10/BE, 10/CE	19,5
10/St 3	1 Puller each No. 10/1, 10/1A, 10/2, 10/2A, 10/3 1 pair each of Extensions No. 10/AE, 10/BE, 10/CE 1 pair each of Bolt Holders No. 10/1H, 10/2H, 10/3H 1 pair each of Drawing Bolts No. ZB/1, ZB/2, ZB/3	27,0

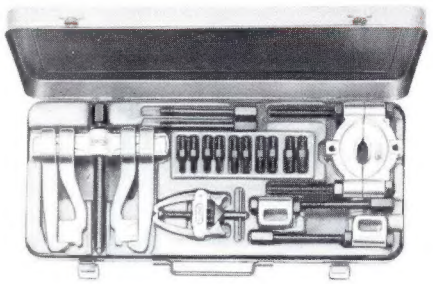
Standard Sets in metal cases

BUCO

10/K

Pullers, Separators and Extracting Tools

Sets No. 10/K comprise of our well-known BUCO Standard twin grip pullers No. 10 with their extensive range of special equipment, including separators, battery terminal pullers, stud setter and extractors.
An ideal tool combination made for quick and safe removal of gear wheels, ball bearings, races, pulleys, etc. A full range of threaded adaptors is supplied with drawing bolts and extensions.
Separators with their knife-edge provide means of withdrawing parts where an all round support is required to avoid damage to close fitting bearings, races, etc.
Also included are battery terminal pullers for „one hand use."
They are indispensable for certain repair work or maintenance of electrical appliances, small motors, ball bearings, wheels, etc.
These standard sets in metal cases have such an universal scale of application that they are indispensable for all progressive workshops, maintenance works, etc.



Order No.	contents of cases		kg
10/K1	1 Standard Puller	No. 10/1	3,6
	1 pair of Bolt Holders	No. 10/1H	
	1 pair of Drawing Bolts	No. ZB/1	
	1 pair of Drawing Bolt Extensions	No. ZBV/1	
	1 complete set of Threaded Adaptors	M5/10-M12/10	
	1 Battery Terminal Puller	No. 40/1	
10/K1A	1 Standard Puller	No. 10/1A	4,2
	1 pair of Bolt Holders	No. 10/1H	
	1 pair of Drawing Bolts	No. ZB/1	
	1 pair of Drawing Bolt Extensions	No. ZBV/1	
	1 complete set of Threaded Adaptors	M5/10-M12/10	
	1 Separator	No. 60/1	
10/K1AE	1 Standard Puller	No. 10/1A	4,8
	1 pair of Extensions	No. 10/AE	
	1 pair of Bolt Holders	No. 10/1H	
	1 pair of Drawing Bolts	No. ZB/1	
	1 pair of Drawing Bolt Extensions	No. ZBV/1	
	1 complete set of Threaded Adaptors	M5/10-M12/10	
	1 Separator	No. 60/1	
10/K2	1 Standard Puller	No. 10/2	9,0
	1 pair of Bolt Holders	No. 10/2H	
	1 pair of Drawing Bolts	No. ZB/2	
	1 pair of Drawing Bolt Extensions	No. ZBV/2	
	1 complete set of Threaded Adaptors	M10/14-M16/14	
	1 Battery Terminal Puller	No. 40/1	
10/K2A	1 Standard Puller	No. 10/2A	10,5
	1 pair of Bolt Holders	No. 10/2H	
	1 pair of Drawing Bolts	No. ZB/2	
	1 pair of Drawing Bolt Extensions	No. ZBV/2	
	1 complete set of Threaded Adaptors	M10/14-M16/14	
	1 Separator	No. 60/2	
10/K2AE	1 Standard Puller	No. 10/2A	12,0
	1 pair of Extensions	No. 10/BE	
	1 pair of Bolt Holders	No. 10/2H	
	1 pair of Drawing Bolts	No. ZB/2	
	1 pair of Drawing Bolt Extensions	No. ZBV/2	
	1 complete set of Threaded Adaptors	M10/14-M16/14	
	1 Separator	No. 60/2	
10/K3	1 Standard Puller	No. 10/3	15,6
	1 pair of Bolt Holders	No. 10/3H	
	1 pair of Drawing Bolts	No. ZB/3	
	1 pair of Drawing Bolt Extensions	No. ZBV/3	
	1 Battery Terminal Puller	No. 40/2	
	1 complete set of Threaded Adaptors	M16-M27/18x1,5	
10/K3E	1 Standard Puller	No. 10/3	14,7
	1 pair of Extensions	No. 10/CE	
	1 Standard Puller	No. 10/1A	
	1 pair of Extensions	No. 10/AE	
	1 Battery Terminal Puller	No. 40/1	
	1 Stud Extractor	No. 71/2	
10/K3S	1 Standard Puller	No. 10/3	18,0
	1 pair of Bolt Holders	No. 10/3H	
	1 pair of Drawing Bolts	No. ZB/3	
	1 pair of Drawing Bolt Extensions	No. ZBV/3	
	1 Separator	No. 60/3	
10/K3A1	1 Standard Puller	No. 10/3A	12,9
	1 Standard Puller	No. 10/1A	
	1 pair of Extensions	No. 10/AE	
	1 Battery Terminal Puller	No. 40/1	
	1 Stud Extractor	No. 71/2	
10/K3A2	1 Standard Puller	No. 10/3A	14,4
	1 pair of Extensions	No. 10/CE	
	1 Battery Terminal Puller	No. 40/2	
	2 Stud Extractors	No. 71/2 + 71/3	

BUCO

HS

Hydraulic Rams

interchangeable with standard centre screws

Subsequent fitting of hydraulic rams to pullers as stated is always possible without alterations to beams.

How to operate:
turn back screw on top of ram, then turn centre screw firm against axle, shaft or arbor, to finish work tighten top screw to put hydraulic pressure on part to be withdrawn.

Order No.	for pullers	capacity appr.	kg
HS/1	20/2 + 21/2, 22/2 + 23/2	8 to	1,2
HS/2	10/2 + 10/2A, 13/2 + 13/2A, B 10/2 + B 10/2A	8 to	1,3
HS/3	22/3—22/5, 23/3—23/5	13 to	2,6
HS/4	10/3 + 10/3A, B 10/3 + B 10/3A	13 to	2,9
HS/5	22/6 + 23/6, 24/1—27/1, 24/2—27/2, 30/1 + 30/2, 31/1 + 31/2, 140	16 to	3,5
HS/5 K	10/4	16 to	3,0

BUCO

15

Hydraulic Presses

Enormous power, yet small in size

very simple to handle

The hydraulic press can be applied in connection with all mechanical pullers. Whereever possible, very tight placed parts should be removed by the help of our hydraulic press.
The operating stress is much lessened, therefore thread of centre screw will withstand longer.

Order No.	capacity approx.	height mm	height inch	kg
15/1	8 to	50	2	0,5
15/2	15 to	57	2¼	1,1

How to operate:

place press in released condition between shaft and centre screw of puller, tighten centre screw moderately to keep press in position.
Pulling operation begins by tightening hydraulic press screw.
Same process to be repeated if part to be pulled has not come sufficiently loose.
Note: release hydraulic system always after use. Piston of press releases not automatically.

Mechanical and Hydraulic Pullers

BUCO

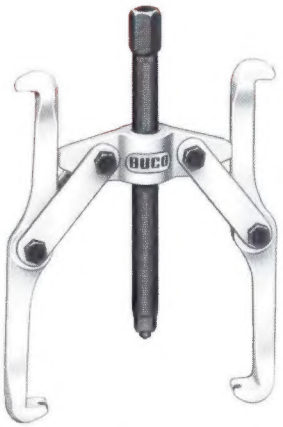
20
HY21

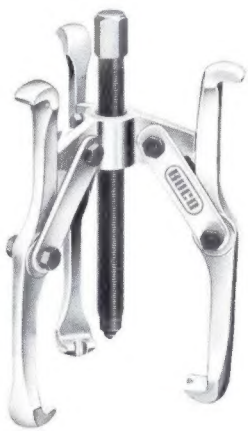
mechanical

	Order No.	mm	inch	mm	inch	kg
twin grip	**20/1**	150	6	80	3¼	0,6
	20/2	200	8	130	5¼	1,6
triple grip	**21/1**	150	6	80	3¼	0,8
	21/2	200	8	130	5¼	2,2

hydraulic

twin grip	**HY20/2**	200	8	130	5¼	2,4
triple grip	**HY21/2**	200	8	130	5¼	3,0





Well-known design for all pulling work. Strongly made yet light and simple to operate. Unique self-locking system ensures nonslipping of jaws — the harder the pull the tighter the grip. The pulling legs with jaws on both ends have one thin and small jaw each for use in tight places. The slots in jaws of No. 2 sizes serve for the insertion of bolts to enable parts with threaded holes, to be pulled off.
Mechanical Centre Screws are interchangeable with Hydraulic Rams.

Universal Set in steel storage case

BUCO

K 20/60

A combination set of universal utility. Each assembled twin grip puller can easily be converted into a triple grip puller by exchanging the appropriate triple puller head and adding extra pulling leg.

The easy interchangeability of these combination sets enable an extra wide use made available at low cost.

Order No.	contents		kg
K 20/60	Universal Puller, twin grip	No. 20/1	10,3
	Universal puller, twin grip	No. 20/2	
	Separator 12— 75 mm 3"	No. 60/1	
	Separator 22—115 mm 4½"	No. 60/2	
	Head for triple grip	for 21/1	
	Head for triple grip	for 21/2	
	Pulling leg, compl.	for 21/1	
	Pulling leg, compl.	for 21/2	

BUCO

22– HY 23

Mechanical and Hydraulic Pullers

Of sturdy yet well balanced construction for all types of application. Simple to operate.
Very wide range.
Self-locking system prevents slipping of jaws. More pressure by forcing screw automatically increases grip of jaws.
Mechanical Centre screws are interchangeable with Hydraulic Rams.

mechanical

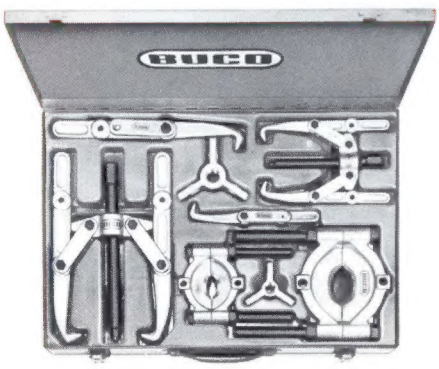
	Order No.	mm	inch	mm	inch	kg
twin grip	**22/01**	100	4	90	3 9/16	0,33
	22/0	120	4 3/4	120	4 3/4	0,5
	22/1	165	6 1/2	145	5 3/4	0,8
	22/2	230	9 1/8	220	8 3/4	2,1
	22/3	300	12	270	10 3/4	4,5
	22/4	400	16	400	16	6,5
	22/5	500	20	500	20	7,4
	22/6	650	26	500	20	13,0
triple grip	**23/01**	100	4	90	3 9/16	0,45
	23/0	120	4 3/4	120	4 3/4	0,65
	23/1	165	6 1/2	145	5 3/4	1,0
	23/2	230	9 1/8	220	8 3/4	2,7
	23/3	300	12	270	10 3/4	6,0
	23/4	400	16	400	16	7,8
	23/5	500	20	500	20	10,5
	23/6	650	26	500	20	17,2

hydraulic

twin grip	**HY 22/2**	230	9 1/8	220	8 3/4	2,8
	HY 22/3	300	12	270	10 3/4	6,2
	HY 22/4	400	16	400	16	8,2
	HY 22/5	500	20	500	20	9,1
	HY 22/6	650	26	500	20	14,4
triple grip	**HY 23/2**	230	9 1/8	220	8 3/4	3,5
	HY 23/3	300	12	270	10 3/4	7,7
	HY 23/4	400	16	400	16	10,7
	HY 23/5	500	20	500	20	12,2
	HY 23/6	650	26	500	20	18,6

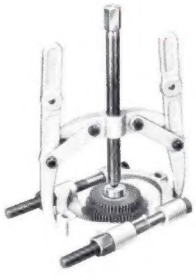
BUCO

K 22/60



Universal Set in steel storage case

Order No.	contents		kg
K 22/60	Universal Puller, twin grip	Nr. 22/1	10,8
	Universal Puller, twin grip	Nr. 22/2	
	Separator 12— 75 mm 3"	Nr. 60/1	
	Separator 22—115 mm 4½"	Nr. 60/2	
	Head for triple grip, small		
	Head for triple grip, medium		
	Pulling leg, compl.	Nr. 22/1H	
	Pulling leg, compl.	Nr. 22/2H	



This illustration shows separator with universal puller separating two closely placed gear wheels. They can then easily pulled off from the shaft.

Mechanical and Hydraulic Pullers

BUCO

24 - HY 27

Exceptionally strong design combined with large capacity.
Universal use as pulling legs are interchangeable. A puller with 5 legs can easily be made into a 4, 3 or 2-leg puller.
In case of spoke wheels it is advisable to insert legs between spokes on the hub. This is possible whether there are 3, 4, 5 or 6 spokes. Use the appropriate number of legs.
Our powerful hydraulic pullers are specially recommended for all industrial maintenance and repair work.

mechanical

puller with	Order No.	mm	inch	mm	inch	kg
2 legs	**24/1**	350	14	325	13	10,9
	24/2	500	20	500	20	12,6
3 legs	**25/1**	350	14	325	13	13,3
	25/2	500	20	500	20	15,7
4 legs	**26/1**	350	14	325	13	15,7
	26/2	500	20	500	20	18,9
5 legs	**27/1**	350	14	325	13	18,0
	27/2	500	20	500	20	22,0

hydraulic

2 legs	**HY 24/1**	350	14	325	13	12,3
	HY 24/2	500	20	500	20	14,0
3 legs	**HY 25/1**	350	14	325	13	14,6
	HY 25/2	500	20	500	20	17,1
4 legs	**HY 26/1**	350	14	325	13	17,2
	HY 26/2	500	20	500	20	20,3
5 legs	**HY 27/1**	350	14	325	13	19,4
	HY 27/2	500	20	500	20	23,4

Additional legs complete with connecting plates, bolts and nuts

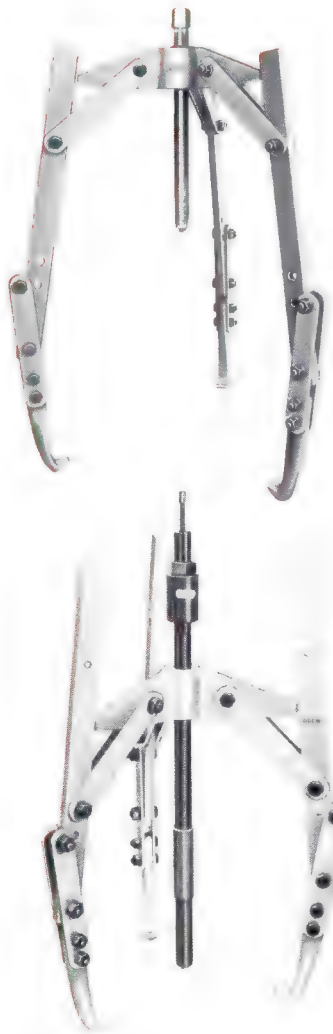
Order No.	mm	inch	kg
24/1 H	325	13	2,5
24/2 H	500	20	3,2

Centre Screw Extension extends screw by 200 mm - 8 inch

Order No.	for pullers	kg
30/SV	Nr. 24/2 — Nr. HY 27/2 Nr. 30/1 — Nr. HY 30/2 Nr. 31/1 — Nr. HY 31/2	2,5

BUCO

30
HY31



Mechanical and Hydraulic Pullers

This is an extra powerful and robust range with extremely large capacities both for reach and spread.
Larger capacities can be supplied upon request.
New improved design for adjustable legs.
Interchangeable mechanical and hydraulic screw.

mechanical

	Order No.	mm	inch	mm	inch	kg
twin grip	**30/1**	850	34	600	24	18,5
	30/2	1000	40	800	32	20,5
triple grip	**31/1**	850	34	600	24	25,0
	31/2	1000	40	800	32	28,2

hydraulic

	Order No.	mm	inch	mm	inch	kg
twin grip	**HY 30/1**	850	34	600	24	19,9
	HY 30/2	1000	40	800	32	21,9
triple grip	**HY 31/1**	850	34	600	24	26,4
	HY 31/2	1000	40	800	32	29,6

BUCO

36,37

Pullers

A very small, handy and inexpensive puller designed for any light work.
The unique self-locking device enables legs to be pressed tightly against parts to be pulled.

	Order No.	mm	inch	mm	inch	kg
twin grip	**36/1**	55	2 3/16	40	1 5/8	0,13
	36/2	75	3	65	2 9/16	0,16
triple grip	**37/1**	55	2 3/16	40	1 5/8	0,18
	37/2	75	3	65	2 9/16	0,22

Battery Terminal Pullers

BUCO
40

A small very handy puller for battery service, electrical appliances, small motors, ball bearings, gears, etc.
The ideal „one hand" application allows swift safe and easy use.
Automatic clamping of pulling legs by spring pressure.
Once in position no slipping-off possible.

	Order No.	mm	inch	mm	inch	kg
twin grip	**40/1**	50	2	40	1⅝	0,18
	40/2	70	2¾	65	2⁹⁄₁₆	0,31

Ball Race Extractors

BUCO
44,48

These special race extractors are preferably put to use for the withdrawal of ball races in blind housings and when space is limited, where normal pullers cannot grip. The slender form makes possible to deal with races in very concealed places.

Extractor, forcing screw with body

Order No.	suitable for pulling legs	kg
44/1	48/1, 48/2	0,2
44/2	48/3, 48/4, 48/5	0,3
44/3	48/4, 48/5, 48/6	0,4
44/4	48/5, 48/7, 48/8	0,7
44/5	48/5, 48/6, 48/8	1,1

Pulling legs, sets of 4 legs

Order No.	suitable for extractors	total length mm	total length inch	1 set kg
48/1	44/1	140	5½	0,1
48/2	44/1	145	5²³⁄₃₂	0,1
48/3	44/2	175	6⅞	0,2
48/4	44/2 + 44/3	175	6⅞	0,2
48/5	44/2 — 44/5	185	7⅜₂	0,3
48/6	44/3 + 44/5	190	7½	0,4
48/7	44/4	235	9¼	0,6
48/8	44/4 + 44/5	235	9¼	0,8

BUCO

44, 48

Ball Race Extractors

schedule of 45 commonly used ball races with extractor sizes to fit.

Order No. Extractors	Order No. Pulling legs	suitable for ball races			
	48/1	6000 6001 6002 6003	6200		
44/1					
	48/2	6004 6005	6201 6202		
	48/3	6006	6203	6300	
44/2	48/4	6007	6204	6301 6302	
	48/5			6303 6304	
	48/4	6008	6205		
44/3	48/5		6206		
	48/6		6207	6305	
	48/5	6009			
	48/7		6208	6306	
44/4	48/8				6403 6404 6405
	48/5	6010			
	48/6	6011 6012 6013			
44/5	48/8		6209 6210 6211 6212	6307 6308 6309 6310 6311	6406 6407 6408

How to operate Nos. 44/48:

Ascertain number of ball race to be extracted. Choose right puller and legs according to schedule.
Insert claws of legs symetrically between balls to grip outer ring, put centre screw onto middle of shaft, hang legs into body and tighten screw until race comes loose.
In case where number of ball race cannot be verified, check distance between outer and inner ring of race.
In most instances the approximate distance corresponds with thickness of pulling legs to be used.

BUCO

44/K

Ball Race Extractor Sets in metal cases

Order No.	contents of cases	for ball races	kg
44/K 1	2 Extractors 44/1 + 44/2 4 sets of Pulling Legs 48/1 — 48/4 1 Supporting Pin	6000—6007 6200—6204 6300—6302	1,5
44/K 2	3 Extractors 44/3 — 44/5 5 sets of Pulling Legs 48/4 — 48/8 1 Supporting Pin	6008—6012 6205—6212 6305—6311 6403—6406	6,9
44/K 3	5 Extractors 44/1 — 44/5 8 sets of Pulling Legs 48/1 — 48/8 1 Supporting Pin	6000—6012 6200—6212 6300—6311 6403—6406	7,7

Internal Race and Bearing Extractors

BUCO

50
50/N

For withdrawing ball bearings, races, sleeves, bushings, etc. from blind holes without damage.
The well designed construction allows a safe and positive grip. Will not slip off under pressure.

How to operate:
Extractor is fed into bore of race. The centre screw is tightened until lips on pulling jaws are securely pressed under race. Mount pulling device and connect centre screw with extractor.
Turn down nut above crossbar the extractor with race will be withdrawn.

Internal Extractors

Order No.	dia. capacity mm	dia. capacity inch	kg
50/02	5 — 6	3/16 — 15/64	0,10
50/01	6 — 8	15/64 — 5/16	0,10
50/0	8 — 12	5/16 — 15/32	0,10
50/1	12 — 16	15/32 — 5/8	0,11
50/2	16 — 20	5/8 — 25/32	0,12
50/3	20 — 27	25/32 — 1 1/16	0,13
50/3A	24 — 30	15/16 — 1 3/16	0,16
50/4	27 — 36	1 1/16 — 1 13/32	0,37
50/5	36 — 46	1 13/32 — 1 13/16	0,47
50/6	46 — 58	1 13/16 — 2 9/32	0,55
50/7	58 — 70	2 9/32 — 2 3/4	0,60
50/8	70 — 100	2 3/4 — 3 15/16	1,70

Needle Bearing Extractors

By strenghtening collar and reducing graduation especially designed for extracting all most used needle bearings from crankshafts etc.

Order No.	dia. capacity mm	dia. capacity inch	kg
50/N1	11,5 — 13	13/32 — 33/64	0,11
50/N2	13 — 15	33/64 — 19/32	0,11
50/N3	15 — 16,5	19/32 — 21/32	0,12
50/N4	16,5 — 18,5	21/32 — 47/64	0,11
50/N5	18,5 — 20	47/64 — 25/32	0,13
50/N6	20 — 24	25/32 — 61/64	0,13

Slide Hammer Unit, Pulling Devices

BUCO

54, 55

Slide Hammer Pulling Unit

Order No.	for use with extractors	kg
54/1	50/02—50/3, 50 N 1—50 N 6	0,9

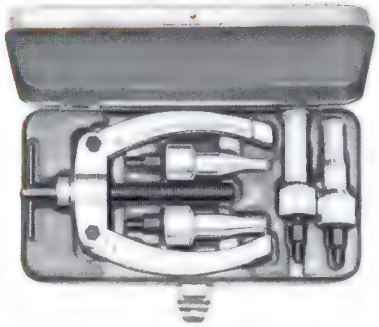
Pulling Devices for Extractors

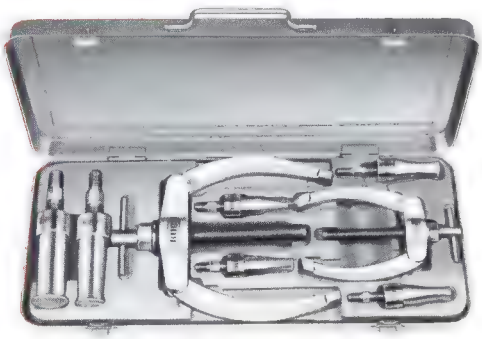
Order No.	for use with extractors	kg
55/1	50/02—50/3 + 50/N1—50/N 6	0,5
55/2	50/4 —50/7	1,3
55/3	50/4 —50/8	2,3

BUCO

50/K

Extractor Sets in metal cases





Order No.	contents of cases		kg
50/KO	4 Internal Extractors 1 Pulling Device	No. 50/0—50/3 No. 55/1	1,4
50/K1	5 Internal Extractors 2 Pulling Devices	No. 50/1—50/5 No. 55/1 + 55/2	4,4
50/K2	7 Internal Extractors 2 Pulling Devices	No. 50/1—50/7 No. 55/1 + 55/2	6,4
50/K3	6 Internal Extractors 2 Pulling Devices 1 Standard Puller 1 pair of Extensions 1 Battery Terminal Puller 2 Stud Extractors	No. 50/0—50/5 No. 55/1—55/2 No. 10/1A No. 10/AE No. 40/1 No. 71/1 + 71/2	8,8
50/K4	7 Internal Extractors 2 Pulling Devices 1 Standard Puller 1 pair of Extensions	No. 50/1—50/7 No. 55/1 + 55/2 No. 10/2 No. 10/BE	11,5

BUCO

52/K

Combined Sets in steel storage cases

These maintenance sets comprise of a well assorted range of pulling and extracting tools to cover practically all essential workshop practice. Sets are laid out to deal with external and internal pulling jobs.

Order No.	contents of cases		kg
52/K1	5 Internal Race Extractors 2 Pulling Devices 1 Standard Puller 1 Pulling Chuck 1 Battery Terminal Puller	No. 50/1—50/5 No. 55/1 + 55/2 No. 10/1 No. 56 No. 40/1	9,1
52/K2	7 Internal Race Extractors 2 Pulling Devices 2 Standard Pullers 1 Pulling Chuck 1 Battery Terminal Puller 1 Stud Extractor	No. 50/1—50/7 No. 55/1 + 55/2 No. 10/1 + 10/2 No. 56 No. 40/1 No. 71/2	13,6
52/K3	8 Internal Race Extractors 2 Pulling Devices 2 Standard Pullers 1 Pulling Chuck 1 Battery Terminal Puller 1 Stud Extractor	No. 50/1—50/8 No. 55/1 + 55/3 No. 10/1 + 10/2 No. 56 No. 40/1 No. 71/2	16,2
52/K4	8 Internal Race Extractors 2 Pulling Devices 2 Standard Pullers 2 pairs of Standard Extensions 1 Pulling Chuck 1 Battery Terminal Puller 1 Stud Extractor	No. 50/1—50/8 No. 55/1 + 55/3 No. 10/1 + 10/2 No. 10/AE + 10/BE No. 56 No. 40/1 No. 71/2	18,0

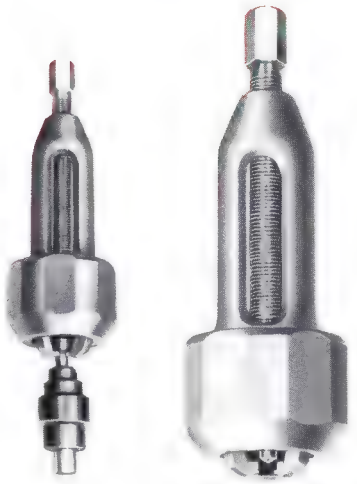
Pulling Chuck

BUCO 56

Designed for effective removal of smallest bushes, rings, discs and bearings.

Order No.	mm	inch	mm	inch	kg
56	5-32	3/16-1 1/4	135	5 5/16	1,5

For tightening jaws turn chuck nut by hand in the same way as drilling chucks. By doing this, jaws of legs are already firm in position, before the actual withdrawing work begins. It is thus possible to work successfully even where ordinary pulling legs would not grip.
It is, for instance, easy to pull bearings mounted against a shoulder.
To do this, jaws of chuck are inserted into running grove of races. When jaws are tightened by chuck nut, bearings are withdrawn by turning centre screw. Illustration shows how pulling chuck works. The dia. of ring to be pulled is not much bigger than dia. of shaft.



Internal Race and Bearing Extractor

BUCO 57

Very strong pullers with enormous capacity.
For larger ball bearings, rings, bushes, etc.
Each extractor is furnished with 2 expanding bodies, which are screwed on to the centre screw according to reach required.

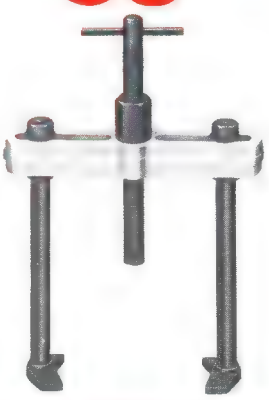
Order No.	for bores ∅ mm	inch	kg
57/1	55-115	2 3/16—4 1/2	2,1

Pulling Device

BUCO 58

To obtain firm connection between extractor and pulling device centre screw of pulling device is screwed into nut of extractor.

Order No.	for use with internal extractor	kg
58/1	57/1	3,9



BUCO

59

Universal Slide Hammer Pulling Unit

An ideal tool for a wide range of work, such as pulling small bearings, gears, pinions, outer and inner races, oil seals, grease retainers, etc.

Slide Hammer puller consists of:

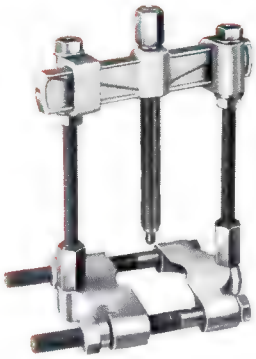
1.) centre screw with handle
2.) slide hammer
3.) tension nut
4.) beam for 3 legs
5.) beam for 2 legs
6.) 3 strong legs for external work, reach 160 mm - 6.5/16 inch
7.) 2 legs with thin jaws for internal use, reach 160 mm - 6 inch
8.) pressure plate
9.) tapered pin
10.) spring
11.) pulling plate with 3 dia. circles providing 12 evenly distributed holes. (For parts with tapped holes to be withdrawn any standard bolts can be used for the pulling).

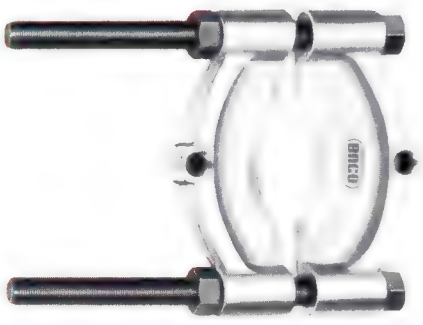
Order No.	external with 3 legs mm	inch	internal with 2 small legs mm	inch	kg
59	140	5½	85	3⅜	7,2

BUCO

60

Separators





Indispensable for the removal of races, bearings, gear wheels etc. from hubs, shafts, where space is limited. The flat sides of separator halves give ample all round support.

Tape edge separator plates grip into the narrowest gap behind work to be withdrawn. Parts are removed by tightening forcing screw.

Drawing bolts of pulling unit thread into holes of separator thus covering a wide range of pulling work.

Extension bolts with connecting nut offer extra long reach.

This separator and pulling unit can be completed by 1 pair of legs of the standard series No. 10, thus obtaining a standard puller No. 10.

A hydraulic ram is available for an easy threadsaving pulling. This is advisable for removing heavy automotive or industrial work.

The suitable hydraulic ram can be had subsequently to add to puller already in use.

Order No.	capacity mm	inch	to fit pulling units	kg
60/0	5 — 60	3/16 — 2⅜	B10/1 + B10/1A	0,5
60/1	12 — 75	15/32 — 3	B10/1A	0,9
60/2	22 — 115	⅞ — 4½	B10/2 + B10/2A	1,8
60/3	30 — 155	1 3/16 — 6⅛	B10/3 + B10/3A	4,5
60/4	30 — 200	1 3/16 — 8	B10/3A	5,6

Separators

BUCO

61

Because of a centre tightening screw with extra beam, these separators offer quick and easy handling.
The two halves of separator are pressed evenly under parts to be withdrawn.

Separator with pressure beam

Order No.	capacity mm	capacity inch	to fit pulling units	kg
61/0	5 — 60	3/16 — 2 3/8	B10/1 + B10/1A	0,9
61/1	12 — 75	15/32 — 3	B10/1A	1,2
61/2	22 — 115	7/8 — 4 1/2	B10/2 + B10/2A	2,7
61/3	30 — 155	1 3/16 — 6 1/8	B10/3 + B10/3A	6,3

Mech. and Hydraulic Pulling Units

BUCO

B10
HY B10

mechanical

Order No.	mm	inch	mm	inch	to fit separators	kg
B10/1	100	4	110	4 3/8	60/0 + 61/0	0,8
B10/1A	130	5 1/8	110	4 3/8	60/1 + 61/1	0,9
B10/2	165	6 1/2	185	7 3/8	60/2 + 61/2	2,9
B10/2A	205	8	185	7 3/8	60/2 + 61/2	3,1
B10/3	260	10 1/4	260	10 3/8	60/3 + 61/3	6,9
B10/3A	355	14 1/8	260	10 3/8	60/3, 60/4 + 61/3	7,9

hydraulic

Order No.	mm	inch	mm	inch	to fit separators	kg
HY B10/2	165	6 1/2	185	7 3/8	60/2 + 61/2	3,6
HY B10/2A	205	8	185	7 3/8	60/2 + 61/2	3,8
HY B10/3	260	10 1/4	260	10 3/8	60/3 + 61/3	8,4
HY B10/3A	355	14 1/8	260	10 3/8	60/3, 60/4 + 61/3	9,4

Extensions

Order No.	length mm	length inch	to fit pulling units	kg
ZBV/1	100	4	B10/1 + B10/1A	0,11
ZBV/2	150	6	B10/2 + B10/2A HY B 10/2 + HY B 10/2A	0,50
ZBV/3	150	6	B10/3 + B10/3A HY B 10/3 + HY B 10/3A	0,90

BUCO

K60

Puller Sets in metal cases

Order No.	contents of cases	kg
K 60/0	Pulling Unit No. B 10/1 1 pair Extensions No. ZBV/1 Separator No. 60/0	2,9
K 60/1	Pulling Unit No. B 10/1A 1 pair Extensions No. ZBV/1 Separator No. 60/1	3,4
K 60/2	Pulling Unit No. B 10/2 1 pair Extensions No. ZBV/2 Separator No. 60/2	9,2
K 60/3	Pulling Unit No. B 10/3 1 pair Extensions No. ZBV/3 Separator No. 60/3	15,5

BUCO

K61

Puller Sets in metal cases

Order No.	contents of cases	kg
K 61/0	Pulling Unit No. B 10/1 1 pair Extensions No. ZBV/1 Separator No. 61/0	3,3
K 61/1	Pulling Unit No. B 10/1A 1 pair Extensions No. ZBV/1 Separator Nr. 61/1	3,8
K 61/2	Pulling Unit No. B 10/2 1 pair Extensions No. ZBV/2 Separator No. 61/2	10,0
K 61/3	Pulling Unit No. B 10/3 1 pair Extensions No. ZBV/3 Separator No. 61/3	17,3

BUCO

71,74

Stud Setters and Extractors

Order No.	capacity ∅ mm	capacity ∅ inch	kg
71/1	4 — 13	5/32 — 1/2	0,28
71/2	8 — 19	5/16 — 3/4	0,45
71/3	17 — 28	11/16 — 1 3/32	0,50
74	4 — 19	5/32 — 3/4	0,40

BUCO stud extractors handle right and left threaded studs. The knurled wheel, operating on the gear principle for gripping, eliminates slipping. Very short studs can be extracted. Use any ordinary spanner, ring spanner, socket wrench etc. BUCO stud extractors have a remarkably wide reach, they are specially hardened, heat treated and well finished for long wear.

Universal Pullers

BUCO 80

A very attractive priced puller which can be applied for a wide range of work.
For external as well as internal use, by simply turning legs.
Please note extra large spread. Beam and legs heat treated.

Order No.	mm	inch	mm	inch	kg
80/1	100	4	100	4	0,6
80/1A	150	6	100	4	0,7

Steering Arm Pullers

BUCO 83

For the removal of steering arm gears, ball bearings etc. Clamping device will press legs securely behind parts to be withdrawn.

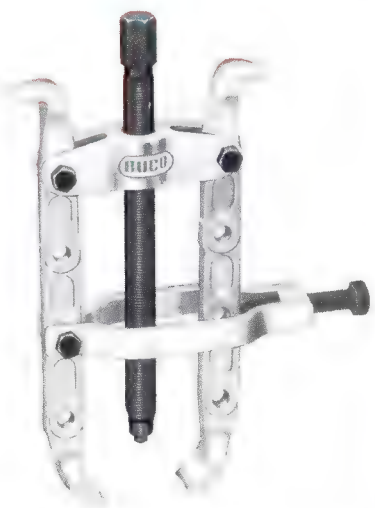
Order No.	mm	inch	mm	inch	kg
83/1	70	2¾	85	3⅜	1,1
83/2	100	4	100	4	1,6
83/3	150	6	150	6	3,0

Pullers for separating & pulling work

BUCO 85

This type of puller is specially adapted for withdrawing all kinds of ball bearings, races, bushes, gears, etc. from blind holes.
By tightening clamping device, the knife-like claws will give a positive grip behind any flush-mounted races etc. The slender form of legs are ideal for all work in confined space.
For normal pulling work simply converse legs.

Order No.	mm	inch	mm	inch	kg
85/1	100	4	175	6⅞	2,1
85/2	145	5⅝	270	10⅝	4,0
85/3	160	6⅜	330	13	4,5



BUCO

100

Universal Hub Pullers

Fits all hub circles up to 225 mm - 9 inch diameter.

This construction allows for universal use on practically all makes of vehicles. Centre screw is mounted in a way to secure shock type action when bumping screw head — without risk of damage to the thread.
All tools supplied with hammer type handle.

Order No.			kg
100/3	with 3 pulling legs		4
100/4	with 4 pulling legs	and handle	4,5
100/5	with 5 pulling legs		5
100/H	pulling leg, loose		0,5

BUCO

130, 131

Special Hub Pullers

A very sturdy design.

To fit all cars with the same hub circle dia. and equal number of studs.
A well designed range.
Attractive prices.

4-Hole Stud Type Hub Pullers

Order No.	hub circle dia. mm	inch	type of vehicle	kg
130/2	100	3 15/16	for several types of cars	3,0
130/7	130	5 1/8	VW cars	3,9

5-Hole Stud Type Hub Pullers

Order No.	hub circle dia. mm	inch	type of vehicle	kg
131/4	112	4 13/32	VW cars	3,9
	130	5 1/8	and K70	
131/10	205	8 1/16	all VW-types up to 1970	8,2

Universal Hub Pullers

BUCO

135
HY135

For all cars and commercial verhicles. Fits hub circles up to 250 mm - 10 inch.
Revolving end parts of legs ensure that no damage can be done to studs, axle or inner parts of the wheel.
Also supplied with hydraulic ram.

Mechanical

Order No.			kg
135/3	with 3 pulling legs	with hammer type	4,5
135/4	with 4 pulling legs	handle and	5,0
135/5	with 5 pulling legs	reducing rings	5,5

Hydraulic

Order No.			kg
HY135/3	with 3 pulling legs	with hammer type	6,0
HY135/4	with 4 pulling legs	handle and	6,5
HY135/5	with 5 pulling legs	reducing rings	7,5

Universal Hub Pullers

BUCO

140
HY140

A large and more powerful version with a wide range of heavy work yet easy to handle. Pulling is done without risk of damage to any parts.
Also supplied with hydraulic ram.

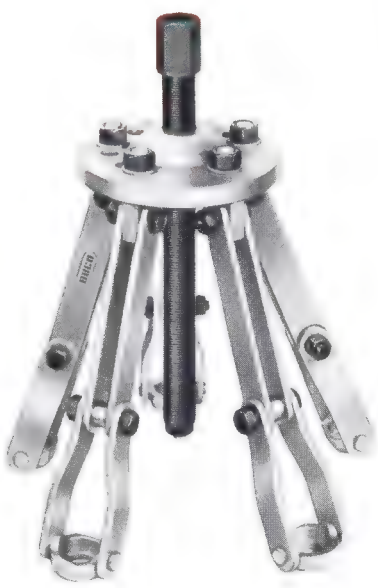
Order No.		kg
140	with centre screw	13,5
HY 140	with hydraulic ram	14,9

Pullers supplied with 5 legs. Each leg (hole 22 mm dia.) furnished with 2 reducing rings 14 and 18 mm hole dia. Sufficient holes in puller plate to take legs for varying bolt positions.

Legs are free to move in a controlled area to suit hubs of either small cars or heavy trucks.

Capacity: up to 425 mm - 17 inch.

Revolving nut holding device together with movable legs take care of studs such avoiding any damage.



BUCO

150

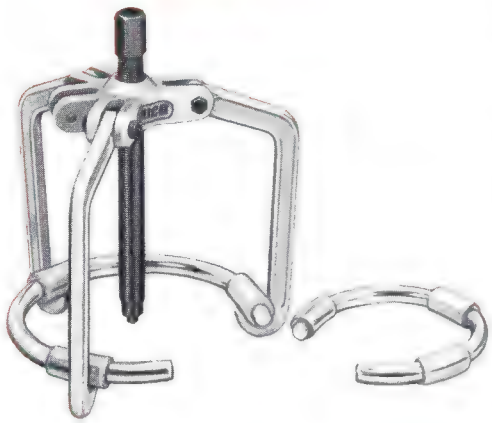
Universal Steering Wheel Puller

Very strong design for steering columns up to 60 mm — 2.3/8 inch dia.
Complete with 5 interchangeable adaptor rings.

Order No.	mm	inch	kg
150	155	6	5,1

BUCO

151



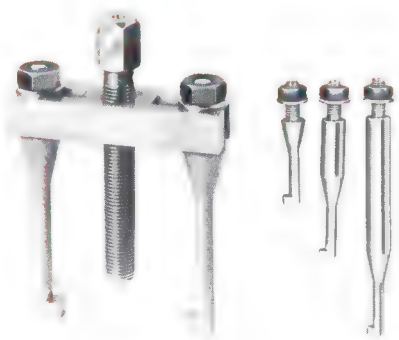
Universal Steering Wheel Puller

Adjustable legs for either twin or triple grip pulling on the steel rings. These have 3 rubber buffers to avoid damage to the wheels.
For steering wheels with 2, 3 or 4 spokes.

Order No.		mm	inch	kg
151	with 2 pulling rings	100	4	2,3
		150	6	

BUCO

155



Special Steering Wheel Pullers

for Opel, Ford and many other cars.

Order No.		mm	inch	mm	inch	kg
155/12	with 2 pairs of hooks for standard and sports steering wheels	80	3 3/16	85 + 135	3 3/8 + 5 5/16	1,00
155/2	with 1 pair of hooks for all standard steering wheels	80	3 3/16	85	3 3/8	0,60
155	puller beam with centre screw	80	3 3/16	—	—	0,36
155/KH	1 pair of short hooks	—	—	50	2	0,11
155/MH	1 pair of normal hooks	—	—	85	3 3/8	0,23
155/LH	1 pair of long hooks	—	—	135	5 5/16	0,38

Steering Ball Joint Pullers

BUCO

180

For easy and swift removal of ball pins from the tapered housing on steering arms.

Order No.	opening A mm	width C mm	height B mm	kg
180/2	18	37	37	0,3
180/3	23	45	45	0,5
180/4	29	60	54	0,8
180/5	38	77	70	1,4

Ball Joint Puller

BUCO

183

Very handy, many sided and specially suited where lack of space forbids entry of direct models.

Order No.	throat opening mm	inch	clearance mm	inch	kg
183/1	22	7/8	20-50	3/4-2	0,6

Dismantling Forks

BUCO

190

This wedge-shaped fork allows quick loosening of ball joints, shock absorbers, pitman arms, etc. If confronted with cramped quarters this handy fork proves itself to have very distinct advantages over any conventional ball joint puller.
Use hammer to drive fork between parts to be separated.

Order No.	fork opening mm	inch	for ball studs mm	inch	kg
190/1	18	11/16	15-25	11/16	0,70
190/2	23	29/32	25-35	29/32	0,75
190/3	29	1 1/8	30-45	1 1/8	0,80
190/4	40	1 9/16	40-60	1 9/16	0,90
190/5	45	1 25/32	50-70	1 25/32	1,00

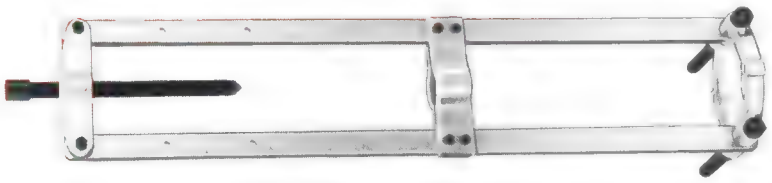
BUCO

200

Axle Bearing Puller

A special puller with very deep reach and 3 adjustment facilities in order to fit puller to any axle length.
For an unproblematic pulling adjust legs parallel to axle and centre screw.

Order No.	mm	inch	mm	inch	kg
200	45-75	1¾-3	750	29½	9,5



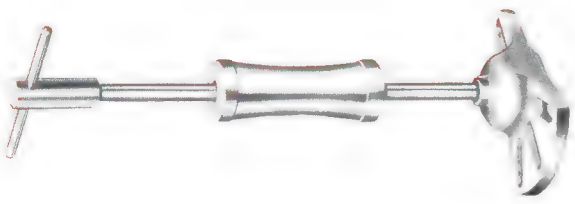
BUCO

210

Slide Hammer Hub & Flange Axle Puller

Essential for removing hubs with 4 or 5 bolts, such as Opel, Ford and many other makes.
A few smart blows with the sliding hammer will effect withdrawal without damage to axle.
This slide hammer unit can be used for many workshop pulling applications, where bolts and nuts can be fastened to flange.

Order No.	for bolt ∅ mm	inch	for hub circles ∅ mm	inch	kg
210	up to 14	9/16	100-150	4-5⅞	4



BUCO

220

Nut Splitters

For releasing sized nuts without damaging bolt or stud threads.
To avoid twisting when working forcing screw, keep body of splitter in wrenchgrip.

Order No.	mm	for nuts wrenchgrip size	inch		kg
220/1	4-10		5/32-13/32	up to M 6	0,1
220/2	10-18		13/32-23/32	up to M 10	0,2
220/3	18-27		23/32-1 1/16	up to M 18	0,4
220/4	27-36		1 1/16-1 13/32	up to M 24	0,6

Screw Extractors

BUCO

225
P225

For removing damaged screws and studs. Drill hole into damaged part, then insert extractor and by turning left the damaged screw will be withdrawn.

Order No.	for screws Ø mm	inch	suitable Ø size drill	kg
225/1	3- 6	1/8-1/4	1,8	0,003
225/2	6- 8	1/4-5/16	2,5	0,005
225/3	8-11	5/16-7/16	3,7	0,012
225/4	11-14	7/16-9/16	5,5	0,025
225/5	14-18	9/16-3/4	7,0	0,045
225/6	18-24	3/4-1	10,0	0,095
225/7	24-33	1-1 3/8	13,5	0,175
225/8	33-45	1 3/8-1 3/4	18,5	0,295
225/9	45-52	1 3/4-2 1/8	25,0	0,560
P225/1	set of 5 extractors, size 1-5		in	0,130
P225/2	set of 6 extractors, size 1-6		plastic	0,235
P225/3	set of 8 extractors, size 1-8		boxes	0,730

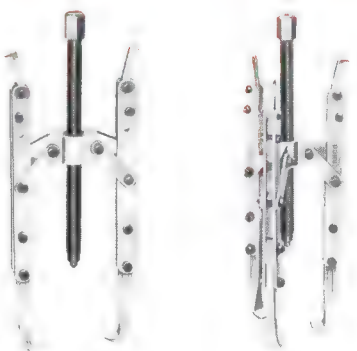
Pullers for Plastic Fan Wheels

BUCO

904, 905

The very slender legs allow insertion through slits of fan wheels on electric motors, to grip behind bush on hub.
By this method a safe removal of the fragile fan is possible.

Order No.		mm	inch	mm	inch	kg
904	twin grip	0-200	8	200	8	0,8
905	triple grip	0-200	8	200	8	1,1



Coil Spring Compressor

BUCO

909

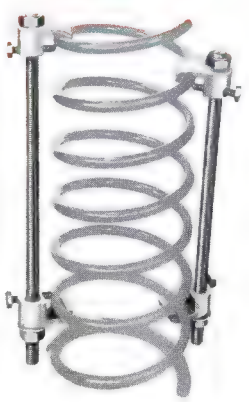
For quick and safe mounting or removal of all usual coils.
The simple yet safe clamping device avoids the breaking away of the spring while working.
It is advisable to use 3 spring compressors simultaneously evenly placed. This will avoid sagging of springs.
Long and short threaded bars are interchangeable.

Spring Compressors

Order No.	capacity mm	inch	kg
909/1	200	8	0,55
909/2	300	12	0,65
909/3	400	16	0,75

Spare threaded bars

Order No.	capacity mm	inch	kg
909/1E	200	8	0,2
909/2E	300	12	0,3
909/3E	400	16	0,4



BUCO

1010

Track Alignment Gauges for inside measuring

Simple telescopic adjustement of length by sliding the precision steel tubing into one another. Springs press end tips against tyres, thus track difference can be instantly veryfied, from either millimetre or inch-scale.
This instrument is designed to allow track testing without the help of workshop pit even by deep lying engines or bodywork.

Order No.	article	capacity	kg
1010	Track Alignment Gauge, reading scale in mm	820-1500 mm	1,8
1010/Z	Track Alignment Gauge, reading scale in inch.	33''-58''	1,8
1010/V	Extension	1500-2125 mm	0,5

Measurable toe-in difference 0—35 mm, 0—1⅜''.

Finish: chromium plated

Full instructions of use are supplied with each instrument.

BUCO

1015-1019

Track Alignment Gauges

for outside and inside measuring

Spezial advantages:
simple and safe adjustment,
solid construction guarantees highest degree of accuracy,
minimal weight through the use of light metal,
adjustable arms to fit small and large tyres,
easy visible markings facilitate the adjusting of arms to the appopriate height,
the special BUCO measuring gauge with double reading scale for rough and precision adjustment secures an absolut exact reading of all testing results.
the precision gauge is protected against damage by a strong metal housing.
very little room for storing is required as instruments are collapsible.

Finish:
steel tubing chromium plated, light metal parts polished.

When measuring from outside:
apply instrument from the front of car and put scale to „O" the push to the backward measuring points. Instrument remains in front of car throughout operation. As an alternative instrument is pushed through underneath front axle.

When measuring from inside:
after turning the 2 measuring points on ends of arms, take same procedure as detailed above.

Full instructions of use are supplied with each instrument.

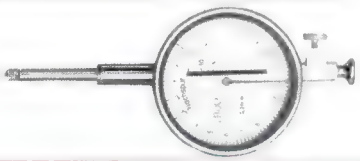
Track Alignment Gauges for outside and inside measuring

BUCO

1015, 1016

A quality instrument with measuring gauge giving accuracy of 0.2 mm in testing results.
Measurable track difference 0.15 mm - 19/32 inch.

Order No.		measuring range outside mm	outside inch	inside mm	inside inch	height mm	height inch	kg
1015	Track Alignment Gauge	1800	70 7/8	2050	12-80 3/4	550	21 5/8	5,0
1016	Track Alignment Gauge	2300	90 1/2	2550	12-100	550	21 5/8	6,0
1015/F	Base Support (necessary by measuring above pits)							0,4
1015/U	Measuring Gauge for replacement	0-15	0-19/32					0,2



Track Alignment Gauges for outside and inside measuring

BUCO

1017-1019

A precision instrument of sturdy construction furnished with BUCO special measuring gauge which gives a guaranteed testing accuracy of 0.2 mm.

Order No.	Article	measuring range outside mm	outside inch	inside mm	inside inch	height mm	height inch	kg
1017	Track Alignment Gauge	1800	70 7/8	2050	80 3/4	700	29 1/2	6,5
1018	Track Alignment Gauge	2300	90 1/2	2550	100	700	29 1/2	7,4
1019	Track Alignment Gauge	2800	110	3050	120	900	35 1/2	8,3
1015/U	Measuring Gauge for replacement	15						0,2
1019/V	Measuring Gauge Pin Extension	60	2 3/8					

These BUCO track alignment gauges have been designed for an even higher degree of accuracy and for universal use on all cars, vans, lorries, trucks etc.

Advantages over Nos. 1015 and 1016:
more stability through new designed arms, connected with adjustable stabilizers to base supports. Therefore a very high of testing accuracy. A new revolving feeler pin has been installed for measuring vehicles with protuding axle ends, hub caps, etc. The measuring capacity of 900 mm in height is sufficient even for largest wheels to carry out the two testing operations from one side.

The instruments, having two base supports, make testing above inspection pits possible.

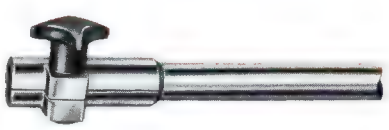
Extensions

BUCO

1015/E

These extensions allow measurements with all the above instruments on vehicles with abnormal wheelbase.

Order Nr.	article	length mm	length inch	kg
1015/E1	Extension	1000	39 3/8	1,7
1015/E2	Extension	1500	49	2,2



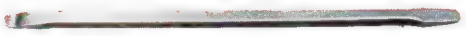
Fit BUCO track alignment gauges Nos. 1015 - 1019

BUCO

2101-2106

Tyre Levers, Mounting Bars

Forged and both ends heat treated.
Finish: hammered silver grey



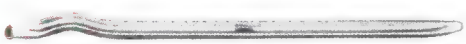
	Order No.	size mm	size inch	kg
Straight type	2101/1	150	6	0,10
	2101/2	200	8	0,12
	2101/3	300	12	0,38
	2101/4	400	16	0,60
	2101/5	500	20	0,70
	2101/6	600	24	1,20
	2101/7	700	28	1,40
S-type	2104/3	300	12	0,38
	2104/4	400	16	0,60
	2104/5	500	20	0,70
	2104/6	600	24	1,20
	2104/7	700	28	1,40
Knee type	2106/3	300	12	0,38
	2106/4	400	16	0,60
	2106/5	500	20	0,70
	2106/6	600	24	1,20
	2106/7	700	28	1,40

BUCO

2111-2116

Tyre levers, Mounting Bars

Wholly heat treated.
Finish: hammered silver grey



	Order No.	size mm	size inch	kg
Straight type	2111/3	300	12	0,32
	2111/4	400	16	0,42
	2111/5	500	20	0,55
	2111/6	600	24	0,67
Knee type	2116/3	300	12	0,32
	2116/4	400	16	0,42
	2116/5	500	20	0,55
	2116/6	600	24	0,67

BUCO

2211-2217

Plug Spanners

Order No.	size mm	for thread ∅ mm	kg
2211	21	14	0,10
2212	26	18	0,11
2213	21 + 26	14 + 18	0,13
2215	21	14	0,17
2216	19 + 21	14	0,33
2217	21	14	0,20

Tire Lever

BUCO
2130

BUCO Tire Levers are required for all tight fitting lorry, truck or car tires.
Drop forged quality, heat treated, bright zink finish. Strong and approved quality.

Article-No.	length mm	kg
2130	300	1,9

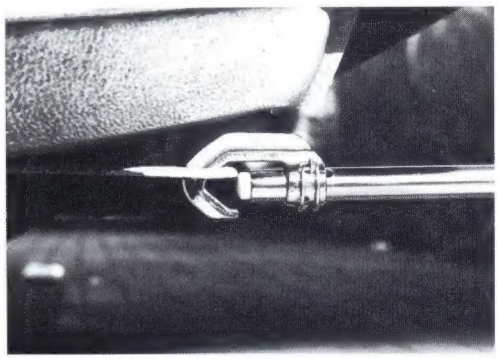
UNIFIT TELESCOPIC CAR Towing Rod

BUCO
3000

Article-No. 3000

UNIFIT TELESCOPIC Towing Rods offer decisive advantages: —

No problems in towing — even for the unskilled.
No jerks when starting or stopping.
Very strong, precise, well designed model.
Special space-saving handy trunk-fitting packing.
Accurate and troublesome maneuvering is unnecessary, because of the telescopic action with automatic stop.
The universal snap closure hooks fit all towing eyes on cars and also trailer couplings.



fits all towing eyes

Technical data:

Chromium plated therefore lasting protection.
Snap closure hooks drop forged of Chrome Vanadium steel hardened and heat treated.
Very strong precision steel tubing with plastic pressure plug.

Total extended length:	172 cm
Packing:	Attractive coloured carton with strong plastic cover.
Measurements:	66,5 x 8,5 x 3,2 cm
Weight:	4,2 kg
Pulling weight limit:	2500 kg

The functioning of the Telescoping Towing Rod:

1. Fit both parts together and fix with spring bolt.
   Do not yet pull out the telescope!
2. Bring snap closure towing hooks into position on car towing eye or coupling, fix spring bolts into fitting holes.
3. Start driving slowly and carefully until automatic stop grips, fix spring bolt — ready.

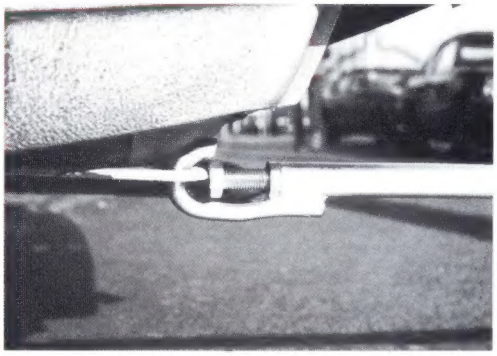
fits all trailer couplings

BUCO

3010

UNIFIT CAR Towing Rod

In the event of a breakdown of a car with "Power" or "Servo brake" towing with a rope is dangerous if not impossible.
The reduction of braking capacity to approx. 50 % very often causes the towed car to roll into the back of the towing vehicle.
With UNIFIT CAR Towing Rod even large distances can be overcome without any risk.



fits all towing eyes

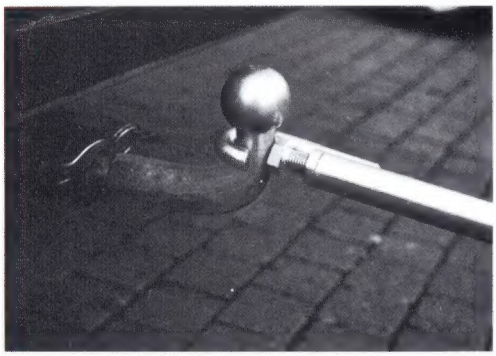
Article-No. 3010

This is a strong easy to handle towing rod and should not be missing in any car.
The 3 components dismantled are packed in a space-saving coloured carton with plastic cover.
The adjustable hooks guarantee simple and precise adaptation to all towing eyes or to all couplings.

Technical data:

bright zink antirust finish, extra strong precision steel tubing.

Total length:	168 cm
Packing:	attractive coloured carton with strong plastic cover.
Measurements:	66,5 x 8,5 x 3,2 cm
Weight:	3,6 kg
Pulling weight limit:	2500 kg



fits all trailer couplings

BUCO

3050-3060

Lorry and Truck Towing Rod

BUCO Lorry Towing Rods are made of very strong seamless drawn steel tubing, pulling eyes are drop forged.

Fits all lorries, trucks, buses, Army vehicles etc. up to 38 tons weight.

For safety in road traffic it is essential that all vehicles over 4 tons total weight are towed only by means of a Towing Rod. A rope should never be used.

Special sizes of
BUCO Lorry Towing Rods
and
Holders for Towing Rods are available.

Please apply for prices and details.

Article-No.	length m	suitable for vehicles with a weight up to	⚖ kg
3050	2,000	16 t	15
3055	2,000	38 t	21
3060	2,500	38 t	25

BUCO

Tools